### **On-site Groundwater**

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
State-licensed Disposal Area (SSWMU #11)*	Groundwater monitoring points around site super solid waste management	Grab liquid	Per NYSERDA	Per NYSERDA	Per NYSERDA
1101a U	units (SSWMUs)				
1101b U					
1101c U	Reported in:				
1102a	• SER				
1102b					
1103a 1103b					
1103b 1103c					
1104a					
1104b					
1104c					
1105a					
1105b					
1106a U					
1106b U 1107a					
1108a U					
1109a U					
1109b U					
1110a					
1111a					
Well Points (Not in a SSWMU)	Well points downgradient of main plant	Grab liquid	- Annual	→ 1 each well	- Gross alpha/beta, H-3
WP-A					
WP-C	Reported in:				
WP-H	• SER				
	Quarterly	Field	- Each event	- 2 each	- pH, conductivity
	groundwater	Measurement			
l	reports	-			
Namb Distance		Cash limid	Caia1	2h	Constallabether II 2
North Plateau Seeps	Groundwater seepage points along the	Grab liquid	- Semiannual	- 2 each seep	<ul> <li>Gross alpha/beta, H-3</li> <li>(pH, conductivity, and</li> </ul>
(Not in a SSWMU)	northeastern edge of				VOCs at SP12)
	the north plateau				
GSEEP SP02	Reported in:				
SP04	• Quarterly				
SP05	groundwater				
SP06	reports				
SP11					
SP12	I				
SP12 SP18 SP23	Here				

NOTE: "U" designates upgradient, "B" designates background and "C" designates crossgradient wells; the remainder are downgradient.
\* SSWMU #11 is sampled by NYSERDA under a separate program.

#### On-site Groundwater

DOE Order 5400.1, IV.9; DOE/EH-0173T, 5.10.1.3; 40 CFR Parts 264 and 265, Subpart F.

The on-site WVDP groundwater monitoring program focuses on radiological and chemical surveillance of both active and inactive super solid waste management units (SSWMUs). The program allows for the determination of water quality. In addition, using wells situated hydraulically upgradient (background) and downgradient of SSWMUs allows for both detection of groundwater contamination and evaluation of the effects associated with the individual SSWMUs.

Groundwater protection is addressed in the Groundwater Protection Management Program, WVDP-091. Groundwater monitoring is covered in the Groundwater Monitoring Plan, WVDP-239.

SSWMU #11

The state-licensed disposal area (SDA) was operated by NFS as a commercial low-level disposal facility and also received wastes from NFS reprocessing operations.

Well Points

Monitor groundwater of known subsurface contamination in the north plateau area. All well points are downgradient of the main plant.

North Plateau Monitor groundwater emanating at the ground surface along the edge of the site's north plateau.

Seeps

<sup>■</sup> Sampling locations are shown on Figure A-3 (p. A-47).

### Off-site Surface Water

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
WFBCTCB Buttermilk Creek, upstream of Cattaraugus Creek	Restricted surface waters receiving plant effluents  Reported in:	Timed continuous composite liquid	- Weekly	Weekly samples composited to 12	<ul> <li>pH, conductivity</li> <li>Monthly composite for gross alpha/beta, H-3</li> </ul>
confluence at Thomas Corners Road	• MTAR • QEMDR • SER			Weekly samples composited to 4	- Quarterly composite for gamma isotopic and Sr-90
WFFELBR	Unrestricted surface waters receiving plant effluents	Timed continuous composite liquid	- Weekly	- 52	→ Gross alpha/beta, H-3, pH
Cattaraugus Creek at Felton Bridge	Reported in:  MTAR  QEMDR  SER			Weekly samples composited to 12	- Flow-weighted monthly composite for gamma isotopic and Sr-90, gross alpha/beta, H-3
	Unrestricted surface water background	Timed continuous composite liquid	- Weekly	- 52	- pH, conductivity
	Reported in:  • MTAR	composite riquid		Weekly samples composited to 12	- Monthly composite for gross alpha/beta, H-3
WFBCBKG Buttermilk Creek near Fox Valley (background)	• QEMDR • SER			Weekly samples composited to 4	<ul> <li>Quarterly composite for gamma isotopic, Sr-90, C-14, I-129, Pu/U isotopic, total U, Am-241, Tc-99</li> </ul>
	_	Grab liquid	- Semiannual	- 2	NPOC, TOX, Ca, Mg, Na, K, Ba, Mn, Fe, Cl, SO <sub>4</sub> , NO <sub>3</sub> -NO <sub>2</sub> -N, F, HCO <sub>3</sub> , CO <sub>3</sub>
WFBIGBR Cattaraugus Creek at Bigelow Bridge (background)	Unrestricted surface water background  Reported in:  MTAR  QEMDR  SER	Grab liquid	- Monthly	- 12	- Gross alpha/beta, H-3, Sr-90, and gamma isotopic

Monthly composites at WFBCTCB, WFBCBKG, and WFFELBR are also sent to NYSDOH.

#### WFBCTCB DOE/EH-0173T, 5.10.1.1.

Buttermilk Creek is the surface water receiving all WVDP effluents. WFBCTCB monitors the potential influence of WVDP drainage into Buttermilk Creek upstream of confluence with Cattaraugus Creek.

### WFFELBR DOE/EH-0173T, 5.10.1.1.

Because Buttermilk Creek empties into Cattaraugus Creek, WFFELBR monitors the potential influence of WVDP drainage into Cattaraugus Creek directly downstream of the Cattaraugus Creek confluence with Buttermilk Creek.

### WFBCBKG DOE/EH-0173T, 5.10.1.1.

Monitors background conditions of Buttermilk Creek upstream of the WVDP. Allows for comparison to downstream conditions.

### WFBIGBR DOE/EH-0173T, 5.10.1.1.

Monitors background conditions of Cattaraugus Creek at Bigelow Bridge, upstream of the WVDP. Allows for comparison to downstream conditions.

■ Sampling locations are shown on Figure A-4 (p. A-48).

## Off-site Drinking Water

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
WFWEL series wells near WVDP outside WNYNSC perimeter	groundwater near facility*	→ Grab liquid →	Annual	- 1 each - location	Gross alpha/beta, H-3, gamma isotopic, pH, conductivity
WFWEL01 3.0 km WNW	Reported in:  MTAR  QEMDR  SER				
WFWEL02 1.5 km NW					
WFWEL03 3.5 km NW					
WFWEL04 3.0 km NW					
WFWEL05 2.5 km SW					
WFWEL06 (background) 29 km S					
WFWEL07 4.4 km NNE	,				
WFWEL08 2.5 km ENE					
WFWEL09 3.0 km SE					
WFWEL10 7.0 km N					

<sup>\*</sup> No drinking water wells are located in hydrogeological units affected by site activity.

Off-site Drinking DOE 5400.1, IV.9; DOE/EH-0173T, 5.10.1.2.

Water
WFWEL
Series

Eight of the ten listed off-site private residential drinking water wells represent the nearest unrestricted uses of groundwater close to the WVDP. The ninth sample (WFWEL10) is from a public water supply from deep wells. The tenth drinking water well, WFWEL06, is located 29 kilometers south of the Project and is considered a background drinking water source.

■ Sampling locations are shown on Figures A-5 and A-9 (pp. A-49 and A-53).

### Off-site Air

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	_	Analyses Performed/ Composite Frequency
AFFXVRD 3.0 km SSE at Fox Valley  AFTCORD 3.7 km NNW at Thomas Corners Road  AFRT240* 2.0 km NE on Route 240  AFSPRVL 7 km N at Springville  AFWEVAL	Particulate air samples around WNYNSC perimeter  Reported in:  MTAR  QEMDR  SER	Continuous air particulate filter	- Weekly	- 52 each location  Weekly filters composited to 4 each location	1	Gross alpha/beta  Quarterly composite for Sr-90, gamma isotopic  Total U, U/Pu isotopic, and Am-241 for AFRSPRD and AFGRVAL only
6 km SSE at West Valley  AFNASHV 37 km W at Village of Nashville, town of Hanover (background)  AFBOEHN 2.3 km SW on Dutch Hill Road		Continuous	- Weekly	- 52 each location	***	Н-3
AFRSPRD 1.5 km NW on Rock Springs Road		desiccant column for water vapor collection		(AFRSPRD and AFGRVAL only)		
AFGRVAL 29 km S at Great Valley (background)  AFBLKST Bulk Storage Warehouse 2.2 km ESE at Buttermilk Road		Continuous charcoal cartridge	- Monthly	- 12 composited to 4 each location (AFRSPRD and AFGRVAL only)	<b>→</b>	Quarterly composite for I-129

<sup>\*</sup> Filter from duplicate sampler sent to NYSDOH.

AFFXVRD DOE/EH-0173T, 5.7.4.

AFTCORD

AFRT240

Air samplers put into service by NFS as part of the site's original monitoring program. Perimeter locations chosen to obtain data from places most likely to provide highest concentrations, based on meteorological data.

**AFSPRVL** 

DOE/EH-0173T, 5.7.4; DOE/EP-0023, 4.2.3.

Off-site (remote) sampler located on private property in nearby community within 15 kilometers of the site (north).

AFWEVAL DOE/EH-0173T, 5.7.4; DOE/EP-0023, 4.2.3.

Off-site (remote) sampler located on private property in nearby community within 15 kilometers of the site (southeast).

**AFNASHV** DOE/EH-0173T, 5.7.4; DOE/EP-0023, 4.2.3.

Off-site (remote) sampler considered to be representative of natural background radiation. Located 37 kilometers west of the site (upwind) on privately owned property.

AFBOEHN DOE/EH-0173T, 5.7.4; DOE/EP-0023, 4.2.3.

Perimeter location chosen to obtain data from the place most likely to provide highest elevated release concentrations based on meteorological data. AFBOEHN is located on NYSERDA property at the perimeter.

AFRSPRD DOE/EH-0173T, 5.7.4.

Perimeter location chosen to obtain data from the place most likely to provide highest ground-level release concentrations, based on meteorological data. AFRSPRD is on WVDP property but outside the main plant operations fence line. I-129 and H-3 are sampled here because the sampling trains were easy to incorporate and the location was most likely to receive effluent releases.

AFGRVAL DOE/EH-0173T, 5.7.4; DOE/EP-0023, 4.2.3.

Off-site (remote) sampler considered to be representative of natural background radiation. Located on privately owned property 29 kilometers south of the site (typically upwind). I-129 and H-3 sampled here also.

**AFBLKST** DOE/EH-0173T, 5.7.4.

Off-site monitoring of bulk storage warehouse, near site perimeter.

<sup>■</sup> Sampling locations are shown on Figures A-6 and A-9 (pp. A-50 and A-53).

### Fallout, Sediment, and Soil

Sample Location Code  AFDHFOP 2.3 km SW  AFFXFOP 3.0 km SSE  AFTCFOP 3.7 km NNW  AF24FOP 2.0 km NE  ANRGFOP Rain gauge on-site	Monitoring/Reporting Requirements  Collection of fallout particulates and precipitation around WNYNSC perimeter  Reported in:  MTAR  QEMDR  SER	Sampling Type/Medium  Integrated precipitation	Collection Frequency  Monthly	Total Annual Sample Collections  - 12 each location	Analyses Performed/ Composite Frequency  Gross alpha/beta, H-3, pH, gamma isotopic
SF Soil Series Surface soil (at each of ten air samplers)	Long-term fallout accumulation  Reported in:  MTAR  QEMDR  SER	Surface plug composite soil	- Annual	- 1 each location	- Gross alpha/beta, gamma isotopic, Sr-90, Pu-239/240, Am-241, plus U-isotopic and total U at SFRSPRD, SFBOEHN, and SFGRVAL
SFCCSED Cattaraugus Creek at Felton Bridge  SFSDSED Cattaraugus Creek at Springville Dam  SFBISED Cattaraugus Creek at Bigelow Bridge (background)  SFTCSED Buttermilk Creek at Thomas Corners Road  SFBCSED Buttermilk Creek at Fox Valley Road (background)	Deposition in sediment downstream of facility effluents  Reported in:  MTAR  QEMDR  SER	Grab stream sediment	- Annual (Split of SFSDSED and SFBCSED with NYSDOH)	- 1 each location	Gross alpha/beta, gamma isotopic, Sr-90, U/Pu isotopic, total U, Am-241
SN On-site Soil Series: SNSW74A (Near WNSW74A) SNSWAMP (Near WNSWAMP) SNSP006 (Near WNSP006)	Reported in:  MTAR QEMDR SER	Surface plug or grab	- Annual	- 1 each location	Gross alpha/beta, gamma isotopic, Sr-90, Pu-239/240, Am-241, U-isotopic, total U, Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

AFDHFOP DOE/EP-0023, 4.7.

**AFFXFOP** 

AFTCFOP Collection of fallout particles and precipitation around the site perimeter at established air sampling locations: AFDHFOP (Dutch

AF24FOP Hill at Boehn road), AFFXFOP (Fox Valley Road), AFTCFOP (Thomas Corners), AF24FOP (Route 240). Indicates short-term

effects

ANRGFOP Collection of fallout particles and precipitation on-site at the rain gauge. Indicates short-term effects.

SF Soil Series DOE/EH-0173T, 5.9.1. Off-site soils collected at air sampling locations.

SFWEVAL (West Valley), SFFXVRD (Fox Valley Road), SFSPRVL (Springville), SFTCORD (Thomas Corners), SFRT240 (Route 240), SFNASHV (Nashville), SFBOEHN (Boehn Road-Dutch Hill), SFGRVAL (Great Valley), SFRSPRD (Rock Springs Road), SFBLKST (bulk storage warehouse): Collection of long-term fallout data at established air sampler locations via soil

sampling.

**SFTCSED** DOE/EH-0173T, 5.12.1.

Sediment deposition at Thomas Corners in Buttermilk Creek immediately downstream of all facility liquid effluents.

**SFBCSED** DOE/EH-0173T, 5.12.1.

Sediment deposition in Buttermilk Creek upstream of facility effluents (background).

**SFCCSED** DOE/EH-0173T, 5.12.1.

Sediment deposition in Cattaraugus Creek at Felton Bridge. Location is first access point to Cattaraugus Creek downstream of the

confluence with Buttermilk Creek.

**SFSDSED** DOE/EH-0173T, 5.12.1.

Sediment deposition in Cattaraugus Creek at Springville Dam. Reservoir provides ideal settling and collection location for sediments

downstream of Buttermilk Creek confluence. Located downstream of SFCCSED.

**SFBISED** DOE/EH-0173T, 5.12.1.

Sediment deposition in Cattaraugus Creek at Bigelow Bridge. Location is upstream of the Buttermilk Creek confluence and serves as

a Cattaraugus Creek background location.

SN Soil Series DOE/EH-0173T, 5.9.1. On-site soil. (Samples may be partially composed of sediments.)

SNSW74A Surface soil near WNSW74A. Location to be specifically defined by geographic coordinates. Corresponds to site drainage pattern

flow (i.e., most likely area of radiological deposition/accumulation).

SNSWAMP Surface soil near WNSWAMP. Location to be specifically defined by geographic coordinates. Corresponds to site drainage pattern

flow (i.e., most likely area of radiological deposition/accumulation).

SNSP006 Surface soil near WNSP006. Location to be specifically defined by geographic coordinates. Corresponds to site drainage pattern

flow (i.e., most likely area of radiological deposition/accumulation).

<sup>■</sup> Sampling locations are shown on Figures A-2, A-4, A-6, and A-9 (pp. A-46, A-48, A-50, and A-53).

### Off-site Biological

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
BFFCATC Fish from Cattaraugus Creek downstream of its confluence with Buttermilk Creek BFFCTRL Control sample	Fish in waters up- and downstream of facility effluents  Reported in:  MTAR  QEMDR  SER	Individual collection, biological	Semiannual (samples at BFFCATC and BFFCTRL shared with NYSDOH)	- 20 fish each location	- Gamma isotopic and Sr-90 in edible portions of each individual fish
from nearby stream not affected by the WVDP (7 km or more upstream of site effluent point; background)  BFFCATD Fish from Cattaraugus Creek downstream of Springville Dam			Annual (BFFCATD only)	- 10 fish	Gamma isotopic and - Sr-90 in edible portions of each individual fish
BFMREED Dairy farm, 3.8 km NNW  BFMCOBO Dairy farm, 1.9 km WNW  BFMCTLS Control location 25 km S (background)	Milk from animals foraging around facility perimeter and at background sites  Reported in:  MTAR  QEMDR  SER	— Grab biological →	Monthly (BFMREED, BFMCOBO, BFMCTLS, BFMCTLN. Samples at BFMREED and BFMCOBO shared with NYSDOH)	- 12 monthly samples composited to 4 each location	- Quarterly composite for gamma isotopic, Sr-90, H-3, and I-129
BFMCTLN Control location 30 km N (background)					
BFMWIDR Dairy farm, 3.0 km SE of site			Annual (BFMWIDR, BFMSCHT)	- 1 each location	- Gamma isotopic, Sr-90, H-3, and I-129
BFMSCHT Dairy farm 4.8 km S			DEVISORE)		

BFFCATC

DOE/EH-0173T, 5.11.1.1.

**BFFCATD** 

Radioactivity may enter a food chain in which fish are a major component and are consumed by the local population.

BFFCTRL

Control fish sample to provide background data for comparison with data from fish caught downstream of facility effluents.

**BFMREED** DOE/EH-0173T, 5.8.2.1.

вғмсово

BFMWIDR Milk from animals foraging around facility perimeter. Milk is consumed by all age groups and is frequently the most important food that could contribute to the radiation dose. Dairy animals pastured near the site and at two BFMSCHT

background locations allow adequate monitoring.

Control milk samples collected far from site to provide background data for comparison with data from near-

BFMCTLN site milk.

<sup>■</sup> Sampling locations are shown on Figures A-5 and A-9 (pp. A-49 and A-53).

### Off-site Biological

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections		Analyses Performed/ Composite Frequency
BFVNEAR* Nearby locations  BFVCTRL* Remote locations (16 km or more from facility; background)  BFHNEAR Beef cattle/milk cow forage from near-site location	Fruit and vegetables grown near facility perimeter, downwind if possible  Reported in:  MTAR  QEMDR  SER	Grab biological (fruits and vegetables)	Annual, at harvest (BFVNEAR and BFVCTRL)	- 3 each (split with NYSDOH)	-	Gamma isotopic and Sr-90 analysis of edible portions, H-3 in free moisture
BFHCTLS or BFHCTLN Beef cattle/milk cow forage from control location south or north (background)		Grab biological -	Annual (BFHNEAR, BFHCTLS, or BFHCTLN)	- 1 each location		Gamma isotopic, Sr-90
BFBNEAR Beef animal from nearby farm in downwind direction  BFBCTRL Beef animal from control location 16 km or more from facility (background)	Meat (beef foraging near facility perimeter, downwind if possible)  Reported in:  MTAR  QEMDR  SER	Grab biological	Semiannual	- 2 each location	<b>¬</b>	Gamma isotopic and Sr-90 analysis of meat, H-3 in free moisture
BFDNEAR Deer in vicinity of the site BFDCTRL	Meat (deer foraging near facility perimeter)  Reported in: • MTAR	Individual collection biological	- Annual, during hunting season (BFDNEAR sample split with NYSDOH)	- 3	-	Gamma isotopic and Sr-90 analysis of meat, H-3 in free moisture
Control deer 16 km or more from facility (background)	• QEMDR • SER		During year as available (BFDCTRL sample split with NYSDOH)	<b>→</b> 3	mè	Gamma isotopic and Sr-90 analysis of meat, H-3 in free moisture

<sup>\*</sup> Corn, apple, and bean samples are identified specifically as follows: corn = BFVNEAC and BFVCTRC; apples = BFVNEAA and BFCTRA; beans = BFVNEAB and BFVCTRB.

#### BFVNEAR DOE/EH-0173T, 5.8.2.2.

Fruits and vegetables (corn, apples, and beans or leafy vegetables, if available) collected from areas near the site. These samples are collected, if possible, from areas near the site predicted to have worst-case downwind concentrations of radionuclides in air and soil. Sample analysis reflects steady state/chronic uptake or contamination of foodstuffs as a result of site activities. Possible pathway to humans or indirectly through animals.

#### BFVCTRL DOE/EH-0173T, 5.8.2.2.

Fruits and vegetables collected from area remote from the site. Background fruits and vegetables collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

#### BFHNEAR DOE/EH-0173T, 5.8.2.2.

Hay collected from areas near the site. Same as for near-site fruits and vegetables (BFVNEAR). Indirect pathway to humans through animals. Collected from same location as beef or milk sample.

#### BFHCTLS BFHCTLN

DOE/EH-0173T, 5.8.2.2.

Hay collected from areas remote from the site. Background hay collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

#### **BFBNEAR** DOE/EH-0173T, 5.8.2.3.

Beef collected from animals raised near the site and foraging downwind in areas of maximum probable site impact. Following the rationale for vegetable matter collected near site (BFVNEAR and BFHNEAR), edible flesh portion of beef animals is analyzed to determine possible radionuclide content passable directly to humans.

#### BFBCTRL DOE/EH-0173T, 5.8.2.3.

Beef collected from animals raised far from the site. Background beef collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

### **BFDNEAR** DOE/EH-0173T, 5.8.3.

Venison from deer herd found living near the site. Same as for beef (BFBNEAR).

### **BFDCTRL** DOE/EH-0173T, 5.8.3.

Venison from deer herd living far from the site. Background deer meat collected for comparison with near-site samples. Collected in area(s) of no possible site impact.

<sup>■</sup> Sampling locations are shown on Figures A-5 and A-9 (pp. A-49 and A-53).

### **Off-site Direct Radiation**

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
DFTLD Series Thermoluminescent Dosimetry (TLD) Off-site: #1-16 At each of 16 compass sectors at nearest accessible perimeter point	Direct radiation around facility  Reported in:  QEMDR  SER	Integrating LiF	· Quarterly -	5 TLDs at each of 23 locations collected 4 times per year	Quarterly gamma radiation exposure
#17 "5 Points" landfill, 19 km SW (background)					
#20 1,500 m NW (downwind receptor)					
#21 Springville 7 km N					
#22 West Valley 6 km SSE					
#23 Great Valley 29 km S (background)					
#37 Nashville 37 km NW (background)					
#41 Sardinia-Savage Road 24 km NE (background)					

## Off-site

DOSIMETRY DOE/EH-0173T, 5.5; DOE/EP-0023, 4.6.3.

TLDs offer continuous integrated environmental gamma-ray monitoring and have been deployed systematically about the site. Off-site TLDs are used to verify that site activities have not adversely affected the surrounding environs.

In addition to general NRC crosschecks at selected sites, a biennial HPIC gamma radiation measurement is completed at all TLD locations.

■ Sampling locations are shown on Figures A-7 and A-9 (pp. A-51 and A-53).

### **On-site Direct Radiation**

Sample Location Code	Monitoring/Reporting Requirements	Sampling Type/Medium	Collection Frequency	Total Annual Sample Collections	Analyses Performed/ Composite Frequency
DNTLD Series Thermoluminescent Dosimetry (TLD) On-site: #18, #19, #33 At three corners of SDA	Direct radiation on facility grounds  Reported in:  QEMDR  SER	Integrating LiF TLD	- Quarterly	of 20 sites collected 4 times per year	Quarterly gamma radiation exposure
#24, #26-32, #34 (9) at security fence around site					
#35, #36, #38-40 (5) On-site near operational areas					
#25 Rock Springs Road 500 m NNW of plant					
#42 SDA T-1 Building					
#43 SDA West Perimeter Fence		· .			

## DOSIMETRY

DOE/EH-0173T, 5.4 and 5.5.

On-site

On-site TLDs monitor waste management units and verify that the potential dose rate to the general public (i.e., at Rock Springs Road) is below 100 mrem/annum (1 mSv/annum) from site activities.

In addition to general NRC crosschecks at selected sites, a biennial HPIC gamma radiation measurement is completed at all locations.

Potential TLD sampling locations are continually evaluated with respect to site activities.

■ Sampling locations are shown on Figure A-8 (p. A-52).

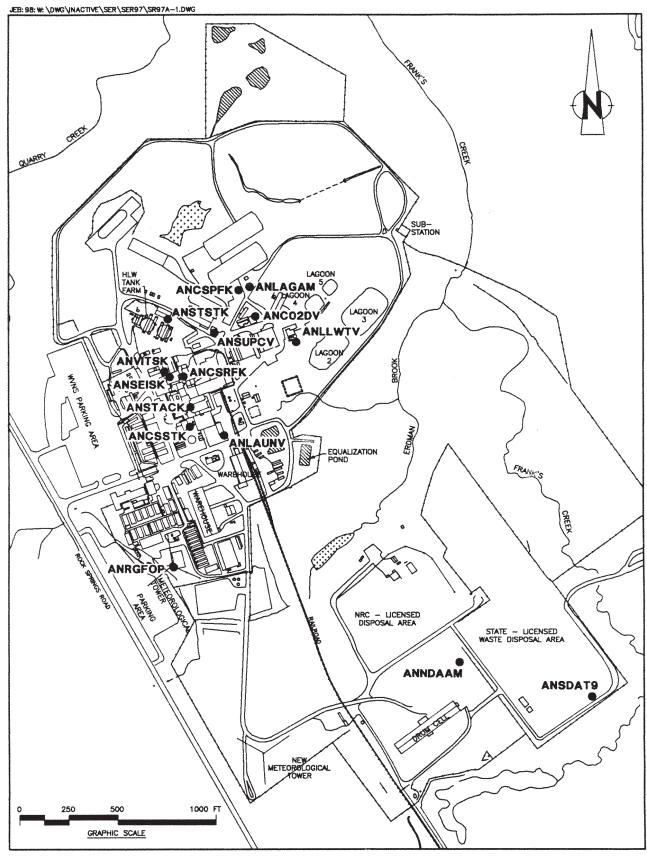


Figure A-1. On-site Air Monitoring and Sampling Points.

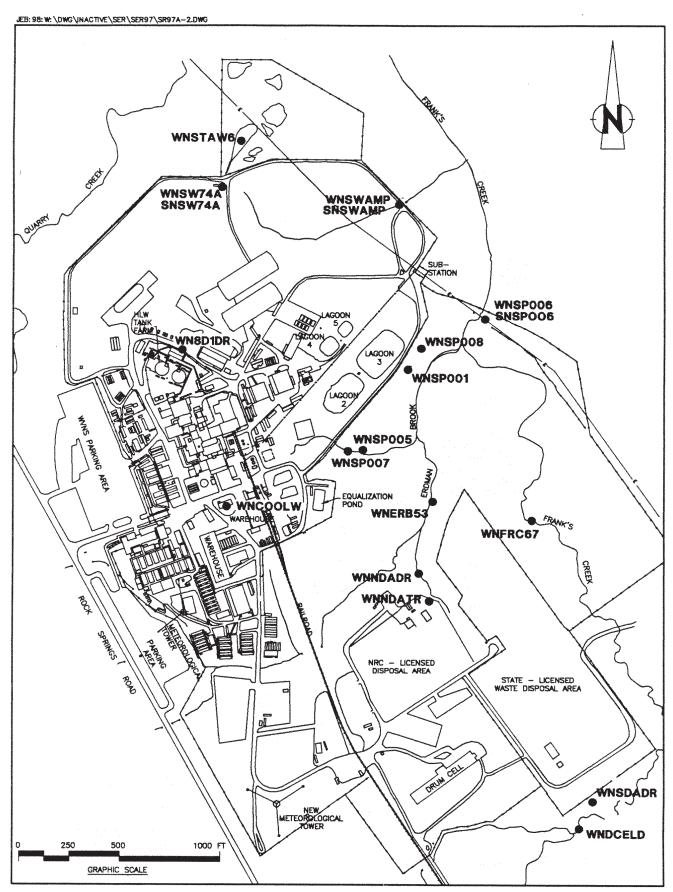


Figure A-2. On-site Surface Water and Soil Sampling Locations.

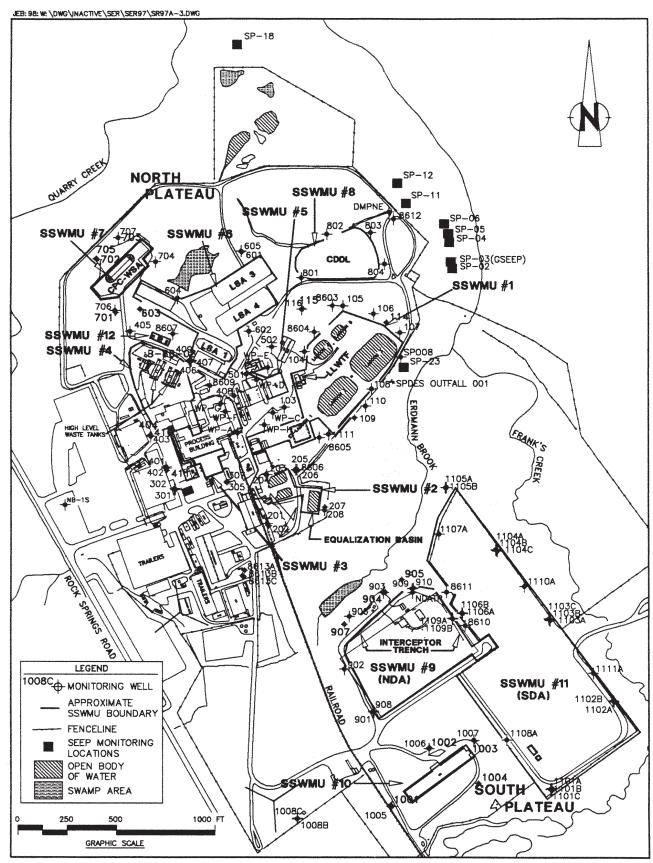


Figure A-3. On-Site Groundwater Monitoring Network (Includes wells not actively monitored following May 1995 but used for water level measurements).

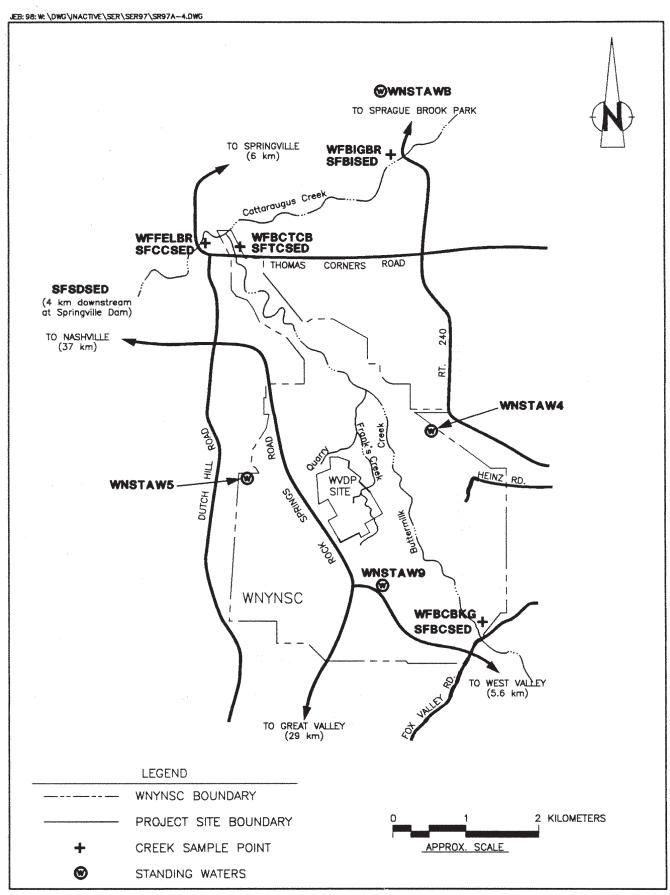


Figure A-4. Off-site Surface Water and Sediment Sampling Locations.

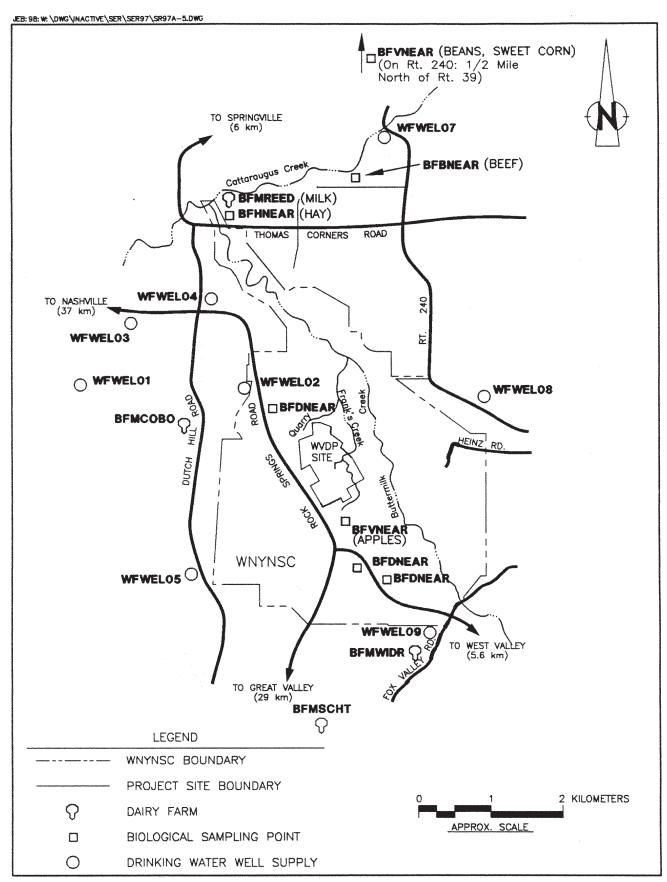


Figure A-5. Near-site Drinking Water and Biological Sample Points.

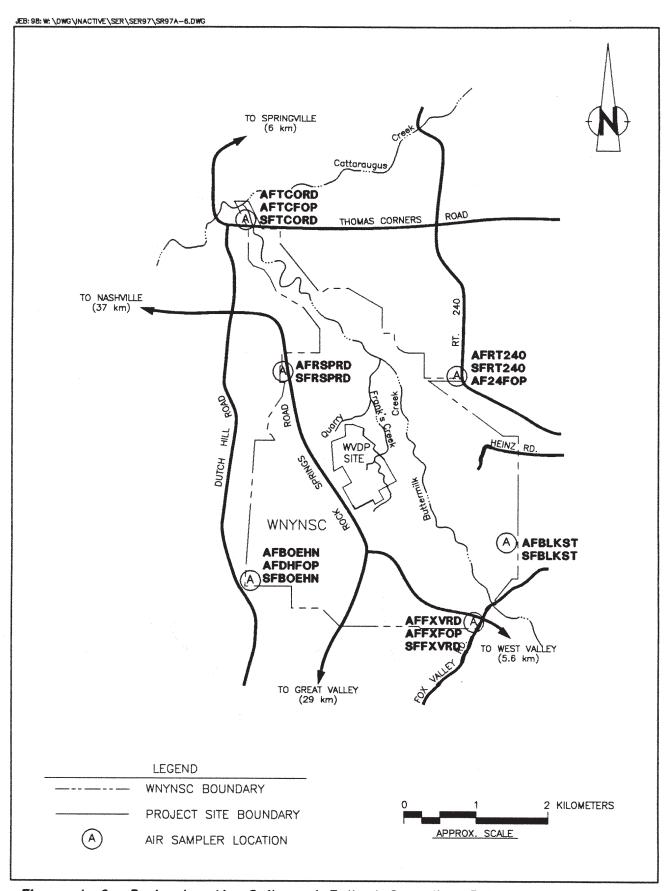


Figure A-6. Perimeter Air, Soil, and Fallout Sampling Point Locations.

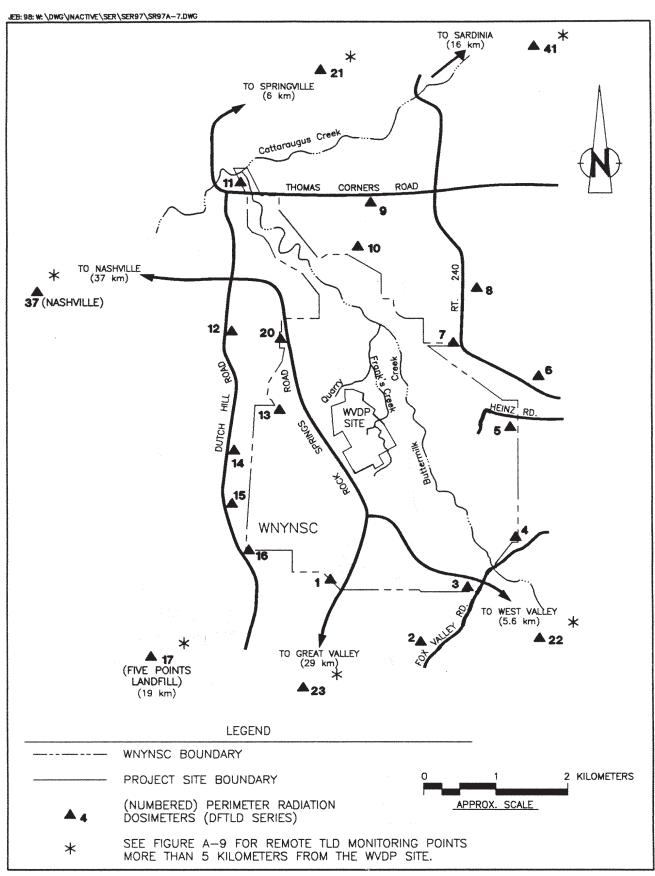


Figure A-7. Off-site Thermoluminescent Dosimeter (TLD) Locations.

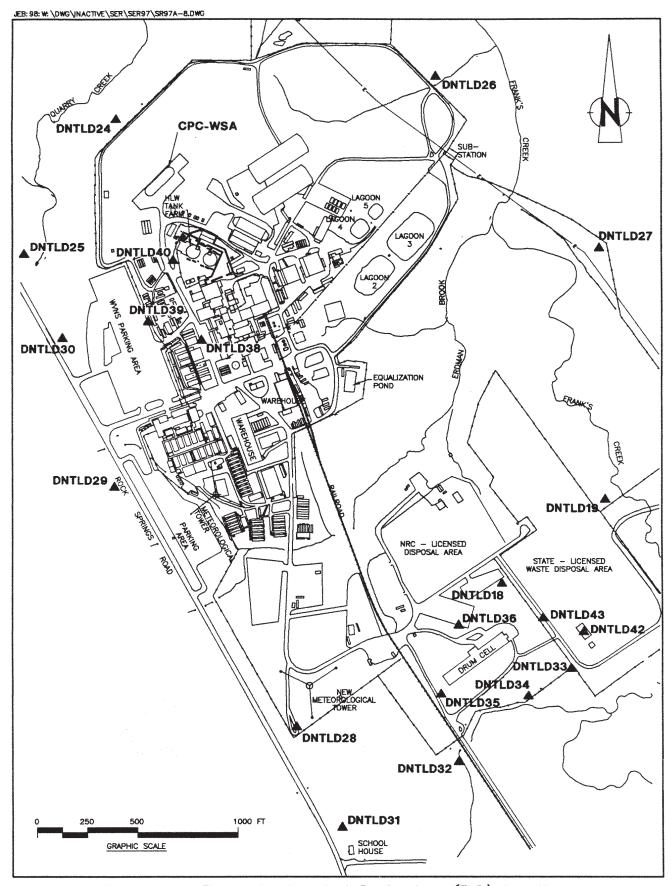


Figure A-8. On-site Thermoluminescent Dosimeters (TLD) Locations.

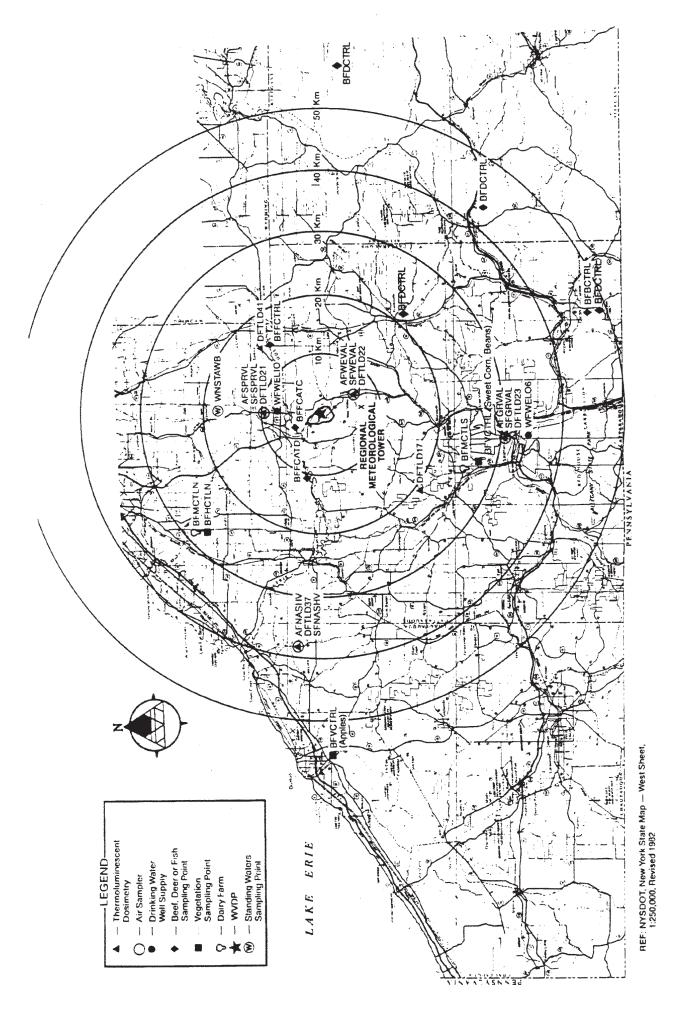


Figure A-9. Environmental sample points more than 5 kilometers from the WVDP site.